

**Amendments to specification:**

Please replace the last full paragraph at page 14 with the following amended paragraph:

In fact, the means for producing a substrate useful for these techniques are explained in Pirrung et al. (1992) U.S. Pat. No. 5,143,854, which is hereby incorporated herein by reference. A substrate may be a material having a rigid or semi-rigid surface. In many embodiments, at least one surface of the substrate will be substantially flat, although in some embodiments it may be desirable to physically separate synthesis regions for different polymers with, for example, wells, raised regions, etched trenches, or the like. According to other embodiments, small beads may be provided on the surface which may be released upon completion of the synthesis. However, there are various particular ways to optimize the synthetic processes. Many of these methods are described in U.S. Pat. No. 5,489,678.

Please replace the first paragraph on page 34 with the following amended paragraph:

A batchwise hybridization is much preferred because of its reproducibility and simplicity. An automated process of attaching various reagents to positionally defined sites on a substrate is provided in Pirrung et al. (1992) U.S. Pat. No. 5,143,854; Serial No. 07/624,120, now abandoned; and Barrett et al. (1993) U.S. Pat. No. 5,252,743; each of which is incorporated herein by reference. The number of monomers in each oligomer may cover a wide variety of values, but in a preferred embodiment ranges from 2 to 100 (column 9, lines 61-64).